

MCU DIVISION



QUARTER 1, 1988

EVALUATION MODULES/BOARDS

				Device Supported	ted		
Evaluation Modules/ Boards	WC6801 WC6801 WC6801	WC6803U4 WC6803	MC68HC04J2\P3 WC68J04P2 MC68J04P2 MC6804J1,JZ	MC88706U3/U5 MC68705R3/P5 MC6806U2/U3 MC6806R2/R3 MC6806P2/R3	MCSSHCSGCA MCSSHCGSCZ/CZ/CZ/CZ MCSSHCGSEB6 MCSSHCGSB6	MC68HC11A0/A1/A8 MC68HC11E MC68HC811AZ	WC68HC39
M68701EVM	\ \ \	' '					
M68705EVM				11111			
MEBHCOMEVM			1111				
M68HC05EVM					/////		
M68HC11EVM						\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
M68HC99EVM							\
M68HC11EVB						\ \ \ \	
MEX68KECB							<u>`</u>

SYSTEM MODULES AND DEVELOPMENT STATIONS

MOTOROLA 8 BIT MPU/PERIPHERAL GUIDE

Device	Pins	Расквре	Part Description
MC6900	40	P, S	8 Bit MPU Addresses 64K Memory, 1 or 2 MHz Versions
MC6802	40	P, S	MC6800 + Int. Clock Oscillator; 178 Bytes RAM
MC6809	40	P, S	High Performance MPU, 10 Powerful Addressing Modes
MC6809E	\$	P, S	MC6809 With External Clock Input For External Sync.
MC6910	54	P S	128 × B Static RAM, 6 Chip Select
MC6821	₹	P, S	Peripheral Interface Adaptor
MC6840	28	P, S	Programmable Timer Module Contains 3 16-Bit Timers
MC6844	4	P. S	Direct Memory Access Controller, 4 DMA Channels
MC6845	\$	P, S	CRT Ctrl, Refresh Memory Addressing; 2nd Source HD6845R
MC6847	4	P. S.	Video Display Generator, Multi Display
MC6850	24	P, S	Asynchronous Communication Interface Adapter
MC6852	24	P, S	Synchronous Serial Interface Adaptor
MC6954	28	s d	Advanced Data Link Controller
MC6859	28	-4	Data Security; Nat Bureau of Strf Algorithm
MC6H488	\$	P, S	Intertace Adaptor, Operates to IEEE 488 Standard
MC68HC24	€	P, FN	MCSBHC11 Port Replacement (Expanded Mode)
MC68HC34	\$	P. S. FN	256 Bytes Dual Port RAM, 6 Semaphore Registers
MC146818	24	P, S	Real Time Clock, 50 Bytes RAM, Programmable Square Wave
MC146918A	5.4	P. S. FN	P, S, FN Enhanced Version of the MC146918
MC146823	₽	P. S. IN	S. F.N. Hiee 8 Bit Ports, Handshake Control Logic

^{*}A stand alone enulator system that provides state of the art, high speed enulation support for the MC6809, MC6819E, and the complete MB811/M68HCLL Family.

MICROCONTROLLER—SELECTOR GUIDE

M6811C11

	ļ			HCMOS	408			
•	9	14	W	E .	E3	811A2	10.98	HC11D3
:	} { ; :		6192	0	×	0	12K	¥
ROM	- ! - : ;	9	¥	512	512	92	952	128
AAM	8	3 5	1 3	515	215	2K	0	٥
EEPROM	10.00	16 Rei	16 84	16 Bit	16 Bit	16 Bit	16 Bit	16 Bit
eu e	5 1 4	es.	\$	Şā,	Yes	X8.	c _Z	Yes
	٤٠٥	Yes	Y _S	Yes	,es	Yes	2	Yes
hand Cabbae		3	3	-	4	C	-	2
Outout Cambridge	- 40	5	\$	-	7	2	-	~
A.O.C. stranger	1 2	, \$3.	88 ,	, <u>\$</u>	SS.	Yes	ž	2
	ĭ	Z X	8	, kes	£	Xes	무	, es
200	3 1	1	56 /	, kes	25	Yes	욷	, es
Welliam	!	1.	1	103 63	N3 C3	57 FM	52 FN	S2.FN
Package	27 FE	= = 	2 8 E	*fo	. (a)	6	Only	9 9
Control Cast one			Port	EEPRUM	EFPROM		Buffer Chip	
Speciel realises			Hepherement	Black Protect	Block Protect		98 84 84 84	
			Upit HC 24		1			
0.1	. 26 ;	98	88			9 8		
D. C. T 1911.	0.21	0.21	0.21			0.2.1		

M6811C05

		1			HCMOS			:	
	2	[3	5	8	. 8	æ	98	91	ž
ROM	*	3K		ž		¥	ž	6209	¥
RAM	1.76	176	176	1,76	176	1.76	176	ž	138
FEPROM	0	0	0	0	3.05	c	¥2.	•	0
Turner	16 But	16 811	16 Bit	16 Bit	16 84	16 Bit	16 Bit	15 Bi	8 Bit 16 Bit
Spi	γ	Yes	Yex	25.	Yes	- 0 1	No.	Yes	2
SCI	ž	*	Yes	Yes	Yes	, es	Xex	2 <u>1</u>	Z.
A/0	75	ş	2	3	ş	se.	Yes	2°	Yes
0:1	- R	ス	z	74	24	æ	33	24	32
Document	ADI SBIR2	ADI SER2	AD1991R2	ADI991R2	Appendia E	A011296	ADH296	AD11254	
Packaye	- C 97	98 P	8 1 N	4. P. V. I. V.	 	52 FN Only	52 FN Oally	85 N 1 85	52 F.R Osky
Spacial Features	0 70° 0 0 0 0 0	907 O	Low Voltage & High Speed	tow Voltage & High Speed	Self Check Stop & West	FWM D/A 4 16 Bit Timers	FWM D/A 4 16 Bit Timers	COMP	24 Lines (3 Ports) VFD on Chip
EPROM OF			MCBBHC BISC4	MCBBHC			MC68HC KD586		
Bus Speed MHz	0.24	0 2 1	0.2.1	0 2 1					
Bus Speed Mili	1 6 2 1	70	1 0 6.1			-	_		

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M6804/M68HC04

		HMOS		HCMOS	105
	5	72	2	<u>.</u>	[2
BOLL	5.	<u>5</u>	1174	15.72	<u>\$</u>
BAM	32	32	33	124	P.C.1
	10 B	9 Br	- EG	-8 B4	± ab o≎
0/1	- 12	- 11	8	12	R
FPROM Version	1		70467		
Bus Speed 1412	83 229	872 08	82 82.28	9 O	<u>\$</u>
Partage	2 8	8	20.	2	78 F

M6805

				2	MOS			
	-		1		1			: : 2
	Z2	£	25	S	77	5	2	2
User ROM (bytes)	2	3776	<u>\$</u>	3720	2048	377E	1160	ğ.
RAW	Z	112	Z	3	Z	211	J	Z.
145	3	12	Yes	æ	£	£	OF.	٤
A/D	×	ž	Şê,	,	£	ėl.	ž	£
1/0 Bithectional	74	24	٦.	2	34	24	F1 ,	٤:
170 Unidirectional		6 0	1	1	æ	oz.	4 -	٦ 2
Pins	8	S	Æ	\$ 2	S	ş	9:	۶.
EPROM Version	70503	/05n3	70553	7,545	2050	T.	<u>.</u>	7
Tamer	9 8	88	. 18. 8	6.	99.	- T	er er	α. α.
Bus Street Mili	0110	0 1 0	0.1 1.0	0110	0110	0110	61.16	6114
Packaye	S d tip	2 d 177	S 'd &	28 1. 5	S d cap	V. 3	ι/ ₁ 2 Σ	ر م اگر
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M6801

		ž	HMCS	
	M-C6901	MC6803	WC6801U4	MCSRRH
AM	8 21	138	261	Ĉ.
Statethy RAM	3	Z	3.	₹.
30M	877.	0	96/10	-
ЕЕРЯОМ	0	0	6	د . ا
Tange (15 Bit	16 Bin	16 Br	Ē.
Input Capture Functions	-	-	- :	- ;
Dulput Compare Fenctions	-	-		2
Serial Communications	50.	Yes	4	*
Senal Peripheral Interface	- F	Νo	52	ź:
A/D Converter	92	5	÷	Ž:
Real Time Interrupt	97		ne He	÷
Watchdou System	SA.	Mo	υľ	Ş
Faraket I/O	Ę.	5	ጲ	£
EPROM	MC68701	M/A	AN 598701U4	6 77
Bus Speed, MHz	0 2 5 0	02.50	52 - 54	27 1 50
Package	40 P, S	8,9 (±	1 44 1	F .

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MCU NEW PRODUCTS

Part	Description	ROM*	RAM	Pins	Prod.	Pkg. Style	Documentation	Competition
M6804 Family: MC68HC704P4 MC68HC04J3	HCMOS MC6804 OTPHOM 20 Pin Version of MC68HC04P3	4K E 2K	156	28	4089	<i>e</i> •	Contact factory	0129 8401
M68HC05 Family: MC68HC805C4	EEPROM Version of MC68HC05C4	4K EE	176	44/40	Now	Z.	AD1991R2	187C51
MC68HC05C9	HCMOS MC68HC05C4 with 16K ROM	, 5 5 5	352	40	4088	У. 5	NDA	
MC68HC05B4	MC68HC05C4 W/8 Channel A/D, 2 Channel PWM	. 4	176	52	1989	N. Z.	ADI1296	HD65901 Siemens 80515
MC68HC05B6	MC68HC05B4 W/More ROM, 256 EEPROM	¥9	176	25	4088	Z	AD11296	Siemens 80515
MC68HC805B6	EEPROM Version of MC6811C05B6	6K EE	176	25	2088	Z	AD11296	Siemens 80515
MC68HC05L6	MC68HC05C4 with 96 Segment LCD Drive	%	176	88	Now	DIE	AD11254	HD63L05F1,NEC 7503
MC68HC05M4	MC68HC05C4 with High Voltage VF Drive	4	128	25	3088	Ä	NDA	
MC68HC705C8	HCMOS MC6805 OTPROM	ж ш	ğ	44/40	4088	FN, p	AD1991R2	HD63705V0P
MC68HC705C4	HCMOS MC6805 OTPHOM	,	176	44/40	6861	FN, P	AD1991R2	HD63705V0P
M68HC11 Family:	MC68HC11 AR with More BOM Mare BAM Bure	1761	E13	ដ	3000	4	OCKON	9000
		512 EE	7	70	2000	2	147.430	10030
MC68HC11E1	MC68HC11E9 Without ROM	512 EE	512	52	3088	Z Z	NP438	
MC68HC811A2	MC68HC11A1 Plus 2K EEPROM	2K EE	556	52/48	Now	F.V.	BR289	HD69501
MC68HC711D3_	HCMOS MC68HC11 OTPROM	4K E	192	40/44	1989	FN, P	Contact factory	HD63701VOP
Other:	1000							
MC6911000 (8-13)	Id bit iMCO	1	1 0	{	: ;	; į	VON:	National 320 16/32
MCOSTICES TREVI	Hard Disc Controller	17X	526	25	8807 7088	<u>.</u>	NP435	Adaptec AIC 100 (3
MC6898	Bus Driver Chip for MC68HC99	!	1	40	2088	Ä	NP435	Chip Solution) M79018DX-15
MODOLO W WOOD : 3 #								

* E = EPROM or OTPROM EE = EEPROM